11/5/98 RADAC meeting 10:00 – 11:45

David Torres
Plans to do Thesis on Raw Data Monitor – expected completion May

WWW Connection
Safe subset of local user CRT
Local user CRT gets all info, binary – at some pt. needs to be changed to ASCII

STK
Do we investigate STK? Answer: don't know yet
Should we take time to evaluate it on current hardware?

Advantages	Disadvantages
COTS	unknown latency
Interactive graphics	how to do alpha-numerics?
Quick look capability	runs only 1 scenario at a time
Replay analysis (post-flight)	zoom feature hard to control
Known by outsiders	may be too much user interaction
3D	setup time
	not as flexible as we have now
	cost

QUESTIONS
Can STK add functionality to existing system?
Can STK replace the local user CRT?
Can current Mission Graphics be updated to have (n) sources?
Should current Mission Graphics be modified?
Do we investigate STK?
What are other launch ranges using?
Sammi?
JAVA?
Goddard STK users group?
Other COTS?
Other real-time systems?

Investigating assignments for next week

Sammi	Rodney
JAVA	Sandy, Mark
Other COTS	Debbie
Other users	Tom
Mission Graphics	Bob
STK user's group	Jnet

Cards

- Win NT adequate for most real time applications especially with extensions
  - NT presentation
  - Plus = experience
- Win NT viable, low-cost, high performance OS
  - should be actively considered
  - don't dismiss without looking into it
- Coding/documentation standards should be used for all code?
  - there are standards imposed by Jay
  - falls under test plan/ ISO 9000
- As data moves through the system its integrity should be validated through use of checks such as CRCs, checksums, etc…
- Language, well written
- Formal inspections should be used through the lifecycle

Concepts from Software Safety Class

Configuration control

1.Clear case
2. Source safe
3. Star base

2&3 can be used together

Schedule presentation for December

Ask for formal requirements

Take inputs – most will probably fall under processing methods, some from output distribution

Allow multiple data formats?

From diagram, FE processor has 3 lines coming out, should it be 1 stream?

Raw Data Monitor

Quality control bit?

Tool that you have to have

Can explain why data not being received

Display only? Possibility of some control?

Capability of removing source before its processed

Should it have control over sources?

Data Quality

Where?

Processing methods?

Control function somewhere between FE & processing methods?

Into processing methods?

Between processing methods & output distribution?

Will most of it come from requirements?

New RADAC Design Decisions
System should have capability to keep history of button pushing
Control panel history archived, error log, source time, history…
Should others have access to control panel options?
Passive vs active
Graphics control?
Programmable control switches?
Peripheral type: touch, push, mouse, keyboard?
#1. Add system history
#9 Include panel for manual control

Control panel
Processing
Capture & control
Display

Next week
Graphics ideas
What processing methods should be like
How to interface with control panel